

CLAIM AMENDMENTS

Claims 1-8.(Cancelled)

9.(Withdrawn-Currently Amended) An apparatus for the manufacture of concrete pipes by the method according to claim 25 ~~1 or 2~~, where the applicator is formed by a core (4) which is intended to be moved in its longitudinal direction into the outer form (3), an upper end of said core (4) being provided with one or more annular grooves (14) characterized in that a further material with a greater density is supplied through one or more annular grooves to form an inner layer of greater density in the pipe structure during vibration from a the vibrator (12) placed inside the core (4).

10.(Withdrawn-Currently Amended) An apparatus for the manufacture of concrete pipes by the method according to claim 25 ~~1 or 2~~, where the applicator is formed by a core (4) which is intended to be moved in its longitudinal direction into the outer form (3), an upper end of said core (4) being provided with a plurality of nozzles or gaps arranged at a short distance from each other in one or more grooves (14) along the circumference of the core (4), characterized ~~characterized characterized characterized~~ in that a further material with a greater density is supplied through said plurality of nozzles or gaps to form an inner layer of greater density in the pipe structure during vibration from a the vibrator (12) placed inside the core (4).

11.(Withdrawn-Currently Amended) An apparatus for the manufacture of concrete pipes by the method according to claim 25 ~~1 or 3~~, characterized in that the applicator is formed by a core (4) which is intended to be rotated during forming or is rotated at completed forming, and that the core (4) is

provided with one or more grooves (14), said grooves (14) being arranged such that they extend in the longitudinal direction of the core (4) in one or more rows.

12.(Withdrawn-Currently Amended) An apparatus according to claim 11 ~~for the manufacture of concrete pipes by the method according to claim 1 or 3,~~ characterized in that the groove or grooves (14) extend in a straight line in the longitudinal direction of the core (4).

13.(Withdrawn-Currently Amended) An apparatus according to claim 11 ~~for the manufacture of concrete pipes by the method according to claim 1 or 3,~~ characterized in that the groove or grooves (14) extend in a form of a spiral along the surface of the core (4) from one end of the core toward or to the other end of the core (4).

14.(Withdrawn-Currently Amended) An apparatus for the manufacture of concrete pipes by the method according to claim ~~25~~ 1 or 4, wherein ~~the~~ a rotor (10) is arranged on the front of the core (4) relative to the direction of travel of the core (4), and that the rotor (10) is provided with supply means (14) characterized in that the further material is supplied to the inner surface of the pipe (2) through the supply means (14) during vibration from a vibrator (12) placed inside the core.

15.(Withdrawn-Currently Amended) An apparatus according to claim 14 ~~for the manufacture of concrete pipes by the method according to claim 1 or 4,~~ characterized in that the supply means (14) provided on the rotor (10) are configured as nozzles and/or gaps.

16. (Cancelled).

17.(Cancelled).

18.(Cancelled).

19.(Withdrawn) The method of claim 25 further comprising forming the inner mould part or core (4) with one or more supply openings (14) along the circumference of the core (4) at an upper end of the core (4) for the supply of the further material thereto.

20.(Withdrawn) The method according to claim 25 wherein the applicator is in a form of a rotor (10), the rotor having one or more supply openings (14) provided in a part of the rotor (10) which faces away from a direction of travel of the rotor (10).

21.(Cancelled).

22.(Cancelled).

23.(Cancelled).

24.(Cancelled).

25. (Currently Amended) A method for manufacturing a lined concrete pipe comprised of an outer concrete layer and an inner liner layer ~~composed of~~ containing a further material which forms a greater density inner surface liner, said method comprising:

providing an outer mould part and a core, a space formed between the outer mould part and the core having a shape of the lined concrete pipe, the core being movable upwardly through the outer mould part;

providing a vibrator within the core,

~~providing an applicator for delivering concrete for forming the lined concrete pipe, the applicator and core being vertically movable upwardly within the outer mould part,~~

feeding concrete to the space formed between the outer mould part and the core ~~applicator~~ as the ~~applicator and core~~ moves ~~move~~ upwardly within the outer mould part for filling the space with concrete,

providing the core with an applicator ~~with~~ comprising one or more supply openings positioned for delivering the further material below the concrete supplied ~~by the applicator to the space, the supply openings essentially extending in the longitudinal direction of the core,~~

vibrating the concrete filling the space between the outer mould part and the core for maintaining the concrete in a fluid phase as the concrete is filling the space while simultaneously supplying the further material through the supply openings of the applicator for merging and diffusing the further material into ~~with~~ the adjacent fluidized concrete, and

at least partially rotating the applicator and the core during delivery of the concrete and further material for merging and diffusing the further material into ~~with~~ the concrete adjacent the applicator to provide a sliding transition from the concrete and out to the further material, forming a mutually denser structural liner with a tight bond, the liner ~~formed~~ integrating together ~~between~~ the concrete and further material, thereby forming an integral liner with the concrete pipe, providing a greater density surface on at least a portion of an inner surface of the concrete pipe.

26.(Previously Presented) The method of claim 25 wherein the applicator is integrally formed with the core or by an applicator unit in direct connection with the core.

27.(Currently Amended) The method according to claim 25, ~~26 and 19-20~~ further comprising delivering the further material for applying an inner layer to a bottom ring and/or a top ring and then applying said ring or rings to the core and the outer mould part.

28.(Currently Amended) The method according to claims 25, ~~26 and 19-20~~ further comprising delivering the further material for applying the inner layer to a bottom ring and/or a top ring when said ring or rings have been connected with the core and outer mould part and before the space is filled with concrete.

29.(Currently Amended) The method according to claim 25 ~~claims 25, 26 and 19-20~~ wherein the pipe has a spigot end, and further comprising delivering the further material for applying an inner layer to the spigot end, lifting a top ring or a profile ring, filling the further material over the spigot end of the pipe, and then lowering/pressing down the profile ring over the spigot end simultaneous with or immediately following vibration.

30.(Previously Presented) The method according to claim 25 wherein the further material is delivered in the form of a paste, powder or liquid.

31.(New) The method according to claim 25 wherein the one or more supply openings essentially extend in the longitudinal direction of the core.

32.(New) The method according to claim 25 further comprising delivering the further material for applying an inner layer to a bottom ring and/or a top ring and then applying said ring or rings to the core and the outer mould part.

33.(New) The method according to claims 25 further comprising delivering the further material for applying the inner layer to a bottom ring and/or a top ring when said ring or rings have been connected with the core and outer mould part and before the space is filled with concrete.

34.(New) The method according to claim 25 wherein the pipe has a spigot end, and further comprising delivering the further material for applying an inner layer to the spigot end, lifting a top ring or a profile ring, filling the further material over the spigot end of the pipe, and then lowering/pressing down the profile ring over the spigot end simultaneous with or immediately following vibration.

35.(Withdrawn-New) The method according to claim 19 further comprising delivering the further material for applying an inner layer to a bottom ring and/or a top ring and then applying said ring or rings to the core and the outer mould part.

36.(Withdrawn-New) The method according to claim 20 further comprising delivering the further material for applying an inner layer to a bottom ring and/or a top ring and then applying said ring or rings to the core and the outer mould part.

37.(Withdrawn-New) The method according to claims 19 further comprising delivering the further material for applying the inner layer to a bottom ring

and/or a top ring when said ring or rings have been connected with the core and outer mould part and before the space is filled with concrete.

38.(Withdrawn-New) The method according to claims 20 further comprising delivering the further material for applying the inner layer to a bottom ring and/or a top ring when said ring or rings have been connected with the core and outer mould part and before the space is filled with concrete.

39.(Withdrawn-New) The method according to claim 19 wherein the pipe has a spigot end, and further comprising delivering the further material for applying an inner layer to the spigot end, lifting a top ring or a profile ring, filling the further material over the spigot end of the pipe, and then lowering/pressing down the profile ring over the spigot end simultaneous with or immediately following vibration.

40.(Withdrawn-New) The method according to claim 20 wherein the pipe has a spigot end, and further comprising delivering the further material for applying an inner layer to the spigot end, lifting a top ring or a profile ring, filling the further material over the spigot end of the pipe, and then lowering/pressing down the profile ring over the spigot end simultaneous with or immediately following vibration.